

SEQUENCE LISTING

<110> Bayer Pharmaceuticals Corporation
Clairmont, Kevin
Lumb, Kevin
Buckholz, Thomas
Salhanick, Arthur

<120> PITUITARY ADENYLATE CYCLASE ACTIVATING PEPTIDE (PACAP) RECEPTOR
(VPAC2) AGONISTS AND THEIR PHARMACOLOGICAL METHODS OF USE

<130> 5189

<150> US 60/539,550
<151> 2004-01-27

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<170> PatentIn version 3.3

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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Tyr
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Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile
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1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
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Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Asn Gly Gly Thr
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg
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1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr
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Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr
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1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
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Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
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1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg
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1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg
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1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Lys Arg
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Asn Lys Arg
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Asn Lys Arg
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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Arg
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ala
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Phe
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys His
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ile
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Lys
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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Leu
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Met
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Pro
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Gln
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ser
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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Thr
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Val
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Trp
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Tyr
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<400> 107

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile
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Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile
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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile
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<400> 110

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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Arg Ile
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<400> 111

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Asn Arg Ile
 20 25 30

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<400> 112

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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys
 20 25 30

<210> 113
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<400> 113

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys
 20 25 30

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<223> ACETYLATION

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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Cys
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<210> 115

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<400> 115

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1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys
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<210> 116

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1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr Cys
20 25 30

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<400> 117

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys
20 25 30

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<400> 118

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr Cys
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr Cys
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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys
 20 25 30

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<400> 121

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 1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys
 20 25 30

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<400> 122

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys
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<210> 123
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<400> 123

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys
 20 25 30

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<400> 124

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 1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys
 20 25 30

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<400> 125

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys
 20 25 30

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<400> 126

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Lys Arg Cys
 20 25 30

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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Gln Lys Arg Cys
20 25 30

<210> 128

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